

IN THE CLAIMS

Please cancel claims 1-8.

Please add the following claims.

9. A voltage stabilizer that is configured to provide an output voltage from an input voltage, comprising:

a plurality of primary coils,

a secondary coil, inductively coupled to each primary coil of the plurality of primary coils, and configured in series between the input voltage and the output voltage to effect a change in the output voltage relative to the input voltage,

one or more switch elements that are configured to effect select configurations of the primary coils, and

a controller that is configured to measure the output voltage and correspondingly control the one or more switch elements to adjust the output voltage to substantially correspond to a nominal voltage level.

10. The voltage stabilizer of claim 9, wherein

the one or more switch elements include static trip elements.

11. The voltage stabilizer of claim 9, wherein

the plurality of primary coils and the secondary coil are replicated three times to provide a three-phase set of output voltages.

12. The voltage stabilizer of claim 11, wherein

each of the one or more switch elements are configured to control the corresponding replicated primary and secondary coils.

13. The voltage stabilizer of claim 9, wherein

each primary coil of the plurality of primary coils is substantially identical, and has a substantially equal inductive coupling to the secondary coil.

14. The voltage stabilizer of claim 13, wherein

the controller is configured to control the one or more switch elements so as to arrange the plurality of coils in series, parallel, or series-parallel.

15. The voltage stabilizer of claim 9, wherein

the controller is configured to control the one or more switch elements so as to arrange the plurality of coils in series, parallel, or series-parallel.

16. The voltage stabilizer of claim 9, wherein

at least one switch of the one or more switch elements is configured to bypass the secondary coil, so that the output voltage corresponds to the input voltage.

17. The voltage stabilizer of claim 16, wherein

the at least one switch is also configured to disengage the plurality of primary coils from the input voltage.

18. The voltage stabilizer of claim 9, wherein

at least one switch of the one or more switch elements is configured to arrange the plurality of primary coils in one of: a series connection and a parallel connection, and

at least one other switch of the one or more switch elements is configured to control a direction of coupling between the plurality of primary coils and the secondary coil.

19. A voltage stabilizer, comprising:

a pair of primary coils,
a secondary coil that is inductively coupled to each of the pair of primary coils,
and
a first switch that is configured to couple the pair of primary coils in a first state
or a second state,
the first state corresponding to a series connection of the pair of primary
coils, and
the second state corresponding to a parallel connection, and
a controller that is configured to measure an output voltage and to
correspondingly control the first switch to adjust the output voltage to correspond to a
nominal voltage.

20. The voltage stabilizer of claim 19, further including

a second switch that is configured to selectively invert a direction of coupling
between the pair of primary coils and the secondary coil, and
wherein
the controller is further configured to control the second switch, based on the
output voltage and the nominal voltage.

21. The voltage stabilizer of claim 20, further including

a third switch that is configured to selectively couple the pair of primary coils to a
supply input voltage, and
wherein
the controller is further configured to control the third switch, based on the output
voltage and the nominal voltage.
